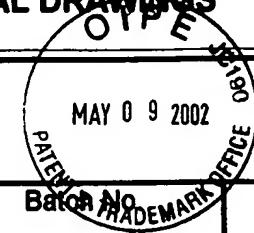


## TRANSMITTAL OF FORMAL DRAWINGS

Docket No.  
POU920020018US1

In Re Application Of: Knop et al.



Serial No.	Filing Date	Batch No.	Examiner	Art Unit
10/077,051	February 15, 2002			2152

Invention: Method for Controlling Group Membership in a Distributed Multinode Data Processing System to  
Assure Mutually Symmetric Liveness Status Indications

Address to:  
Assistant Commissioner for Patents  
Washington, D.C. 20231

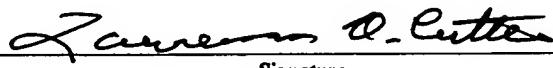
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Technology Center 2100

Transmitted herewith are:

25 sheets of formal drawing(s) for this application.

Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c)  
on the reverse side of the drawing.COPY OF PAPERS  
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Signature

Dated: May 2, 2002

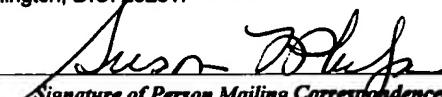
LAWRENCE D. CUTTER, Sr. Attorney

Reg. No. 28,501

IBM Corporation, IP Law Dept.  
2455 South Road, M/S P386  
Poughkeepsie, NY 12601

(845) 433-1172

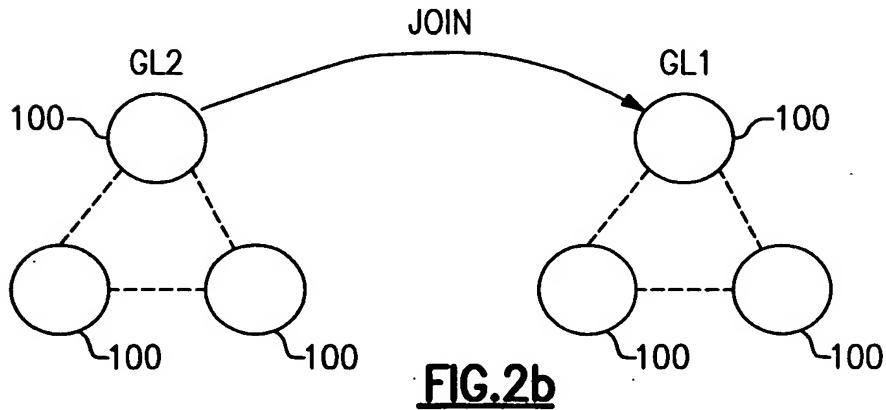
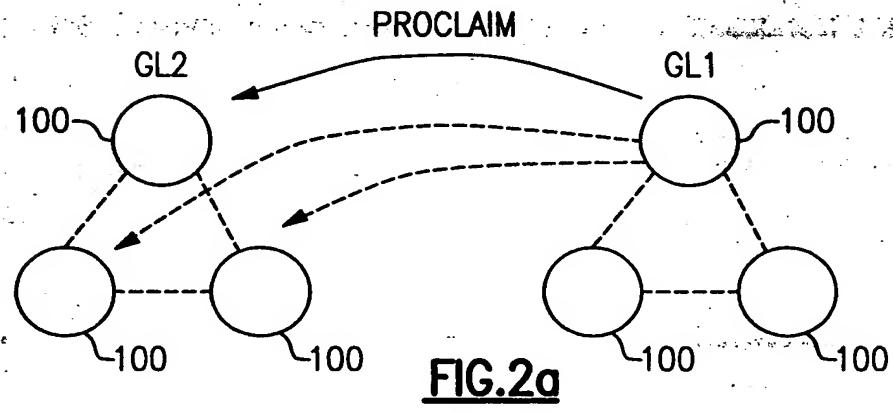
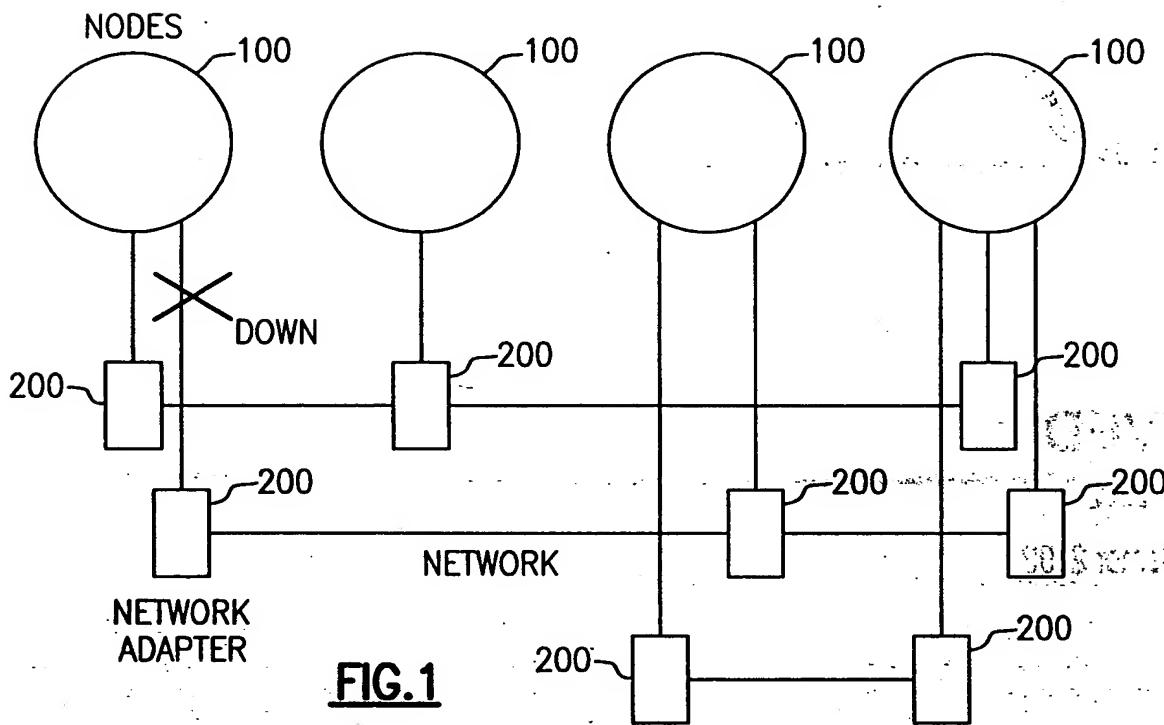
I certify that this document and attached formal drawings are being deposited on 5-2-2002 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

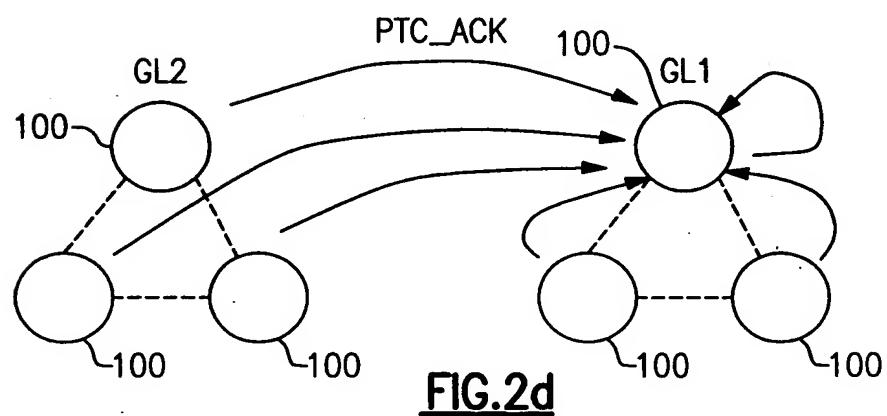
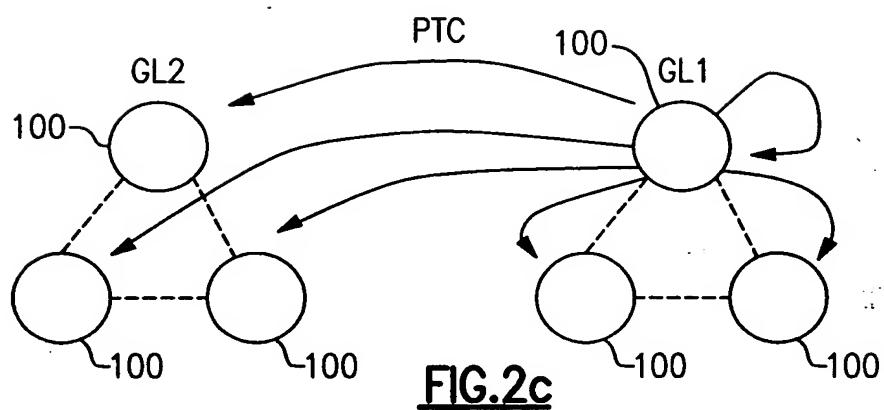


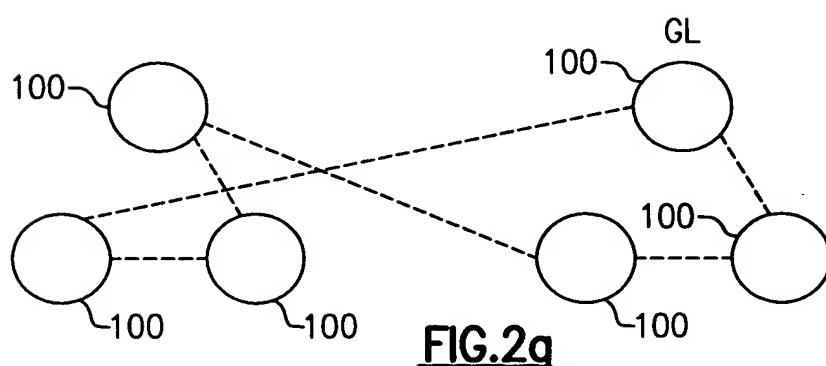
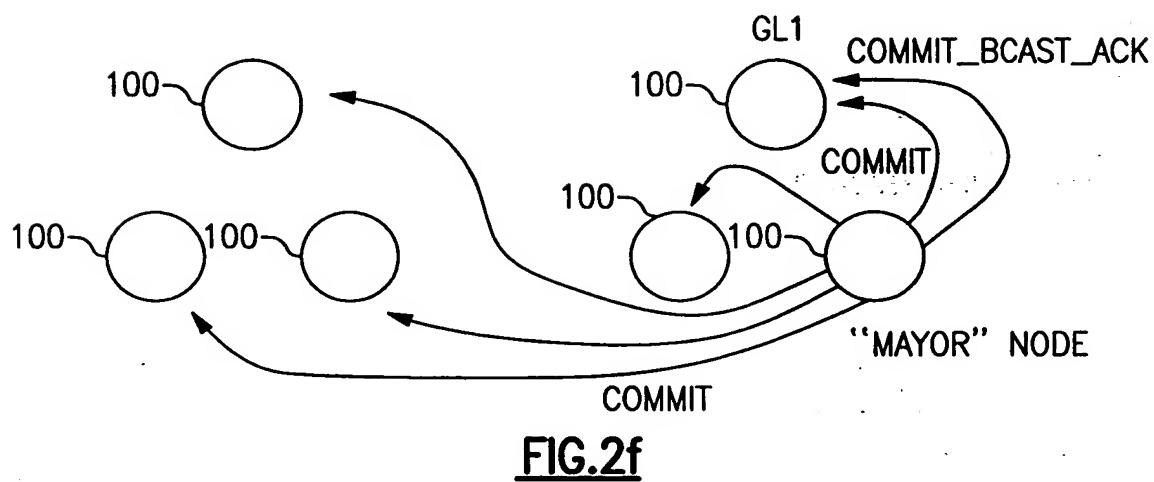
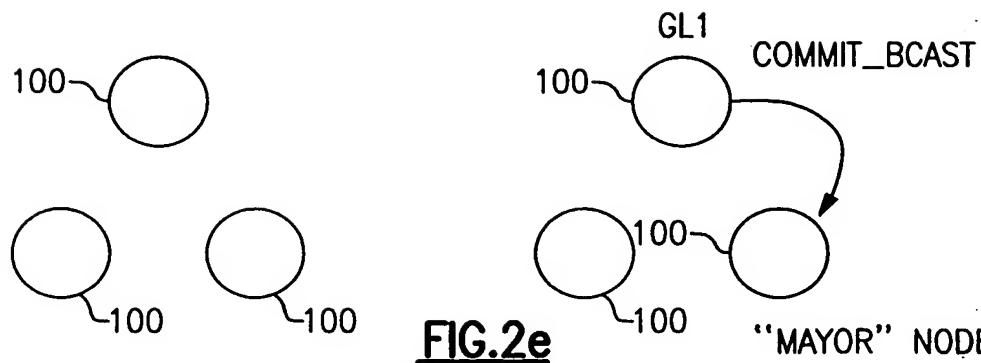
Signature of Person Mailing Correspondence

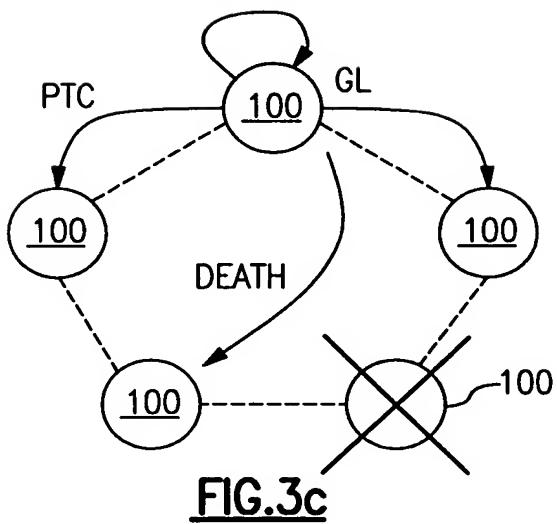
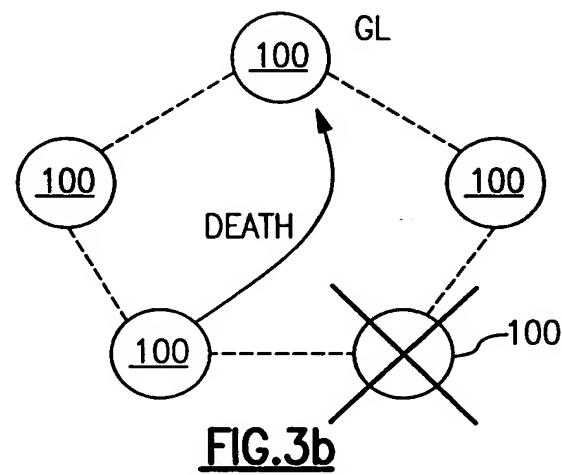
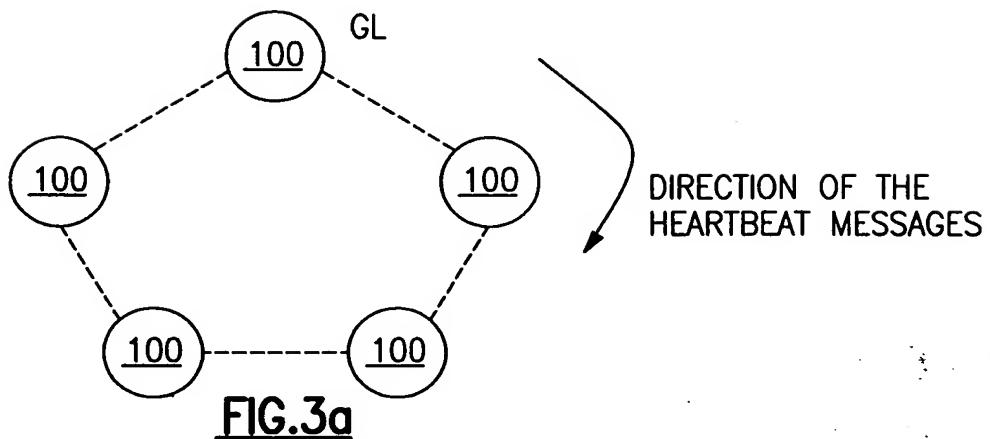
SUSAN L. PHELPS

Typed or Printed Name of Person Mailing Correspondence









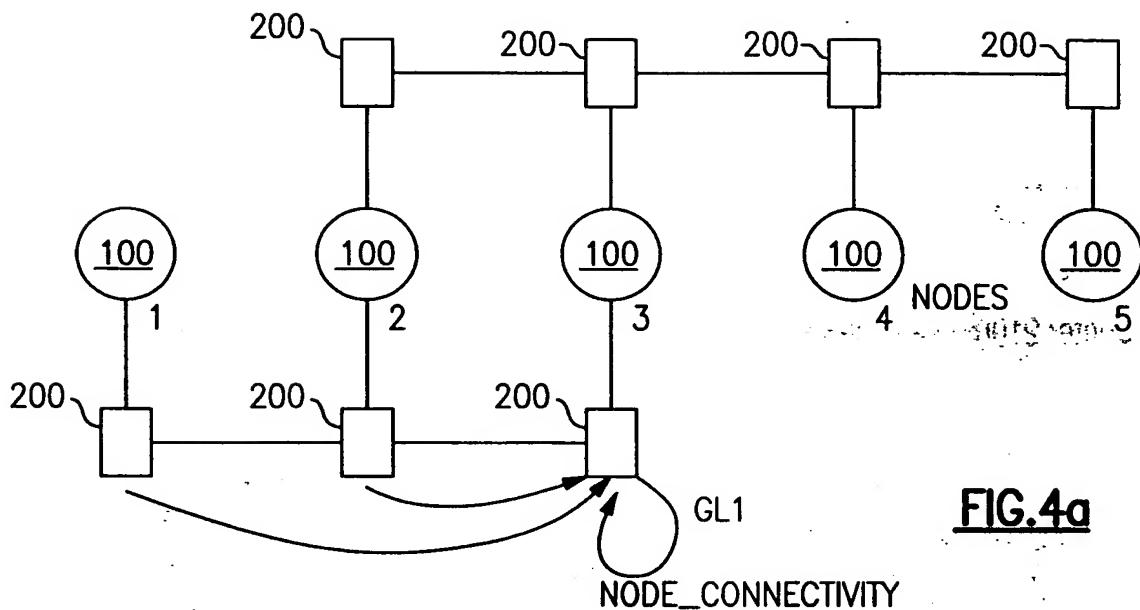


FIG.4a

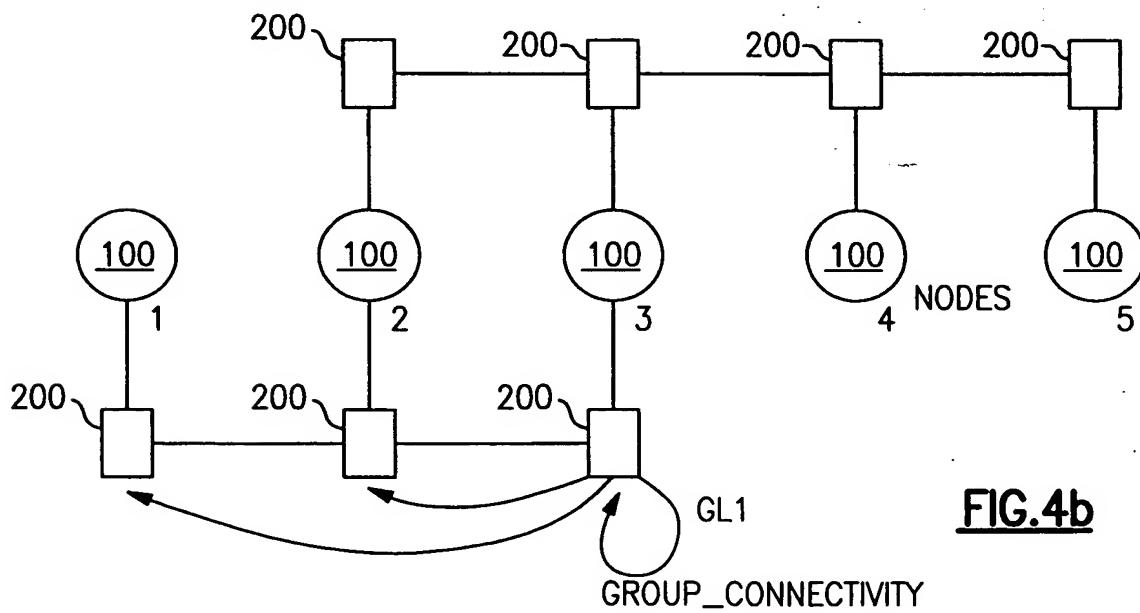
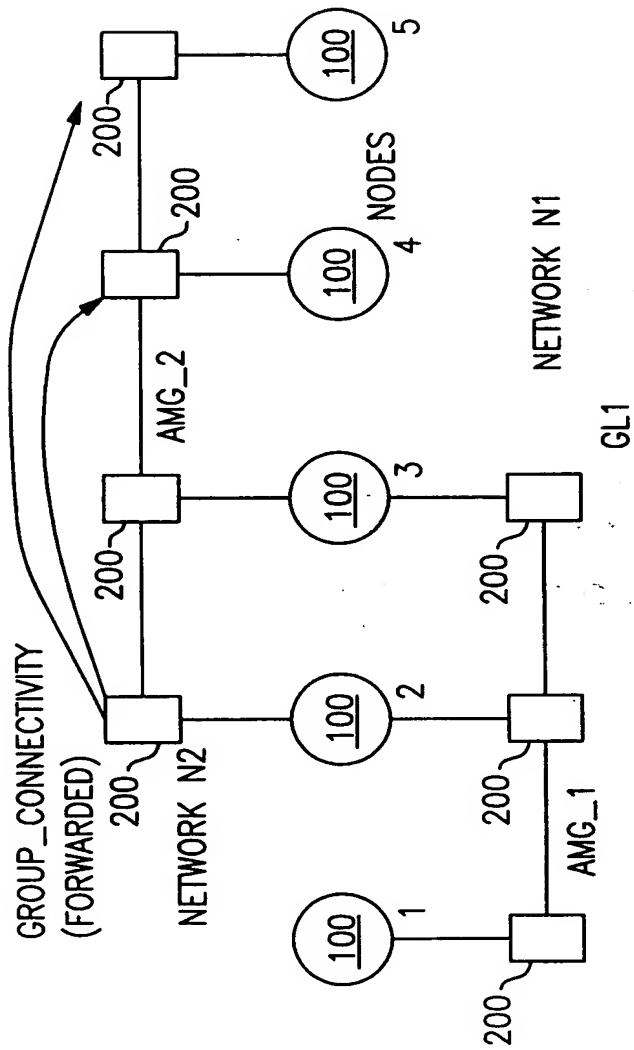


FIG.4b



**FIG.4c**

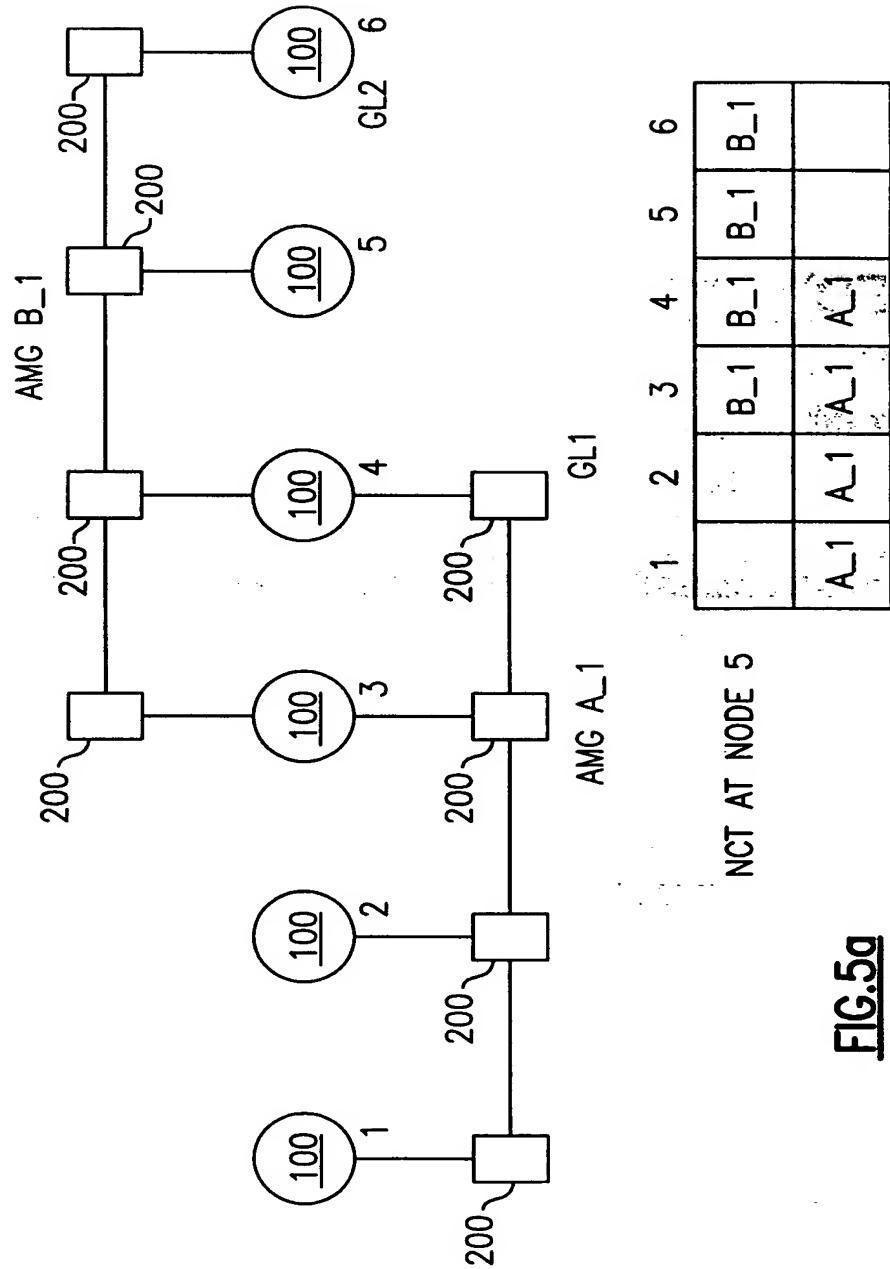
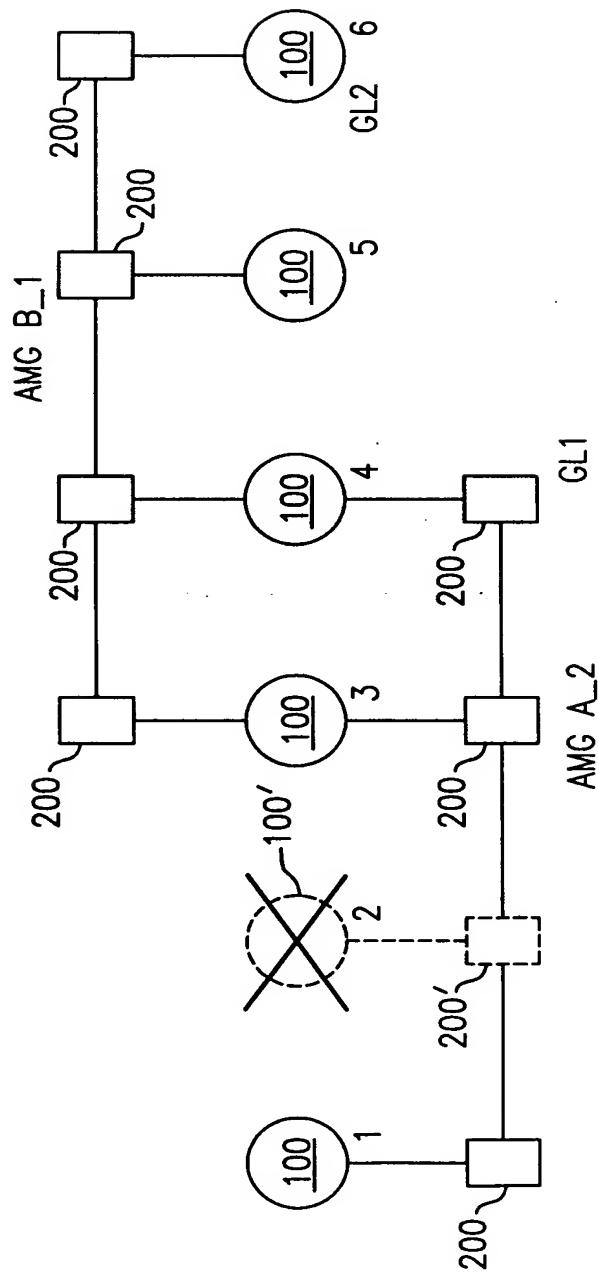


FIG.5g



	1	2	3	4	5	6
1		B_1	B_1	B_1	B_1	
A_1	A_1	A_1	A_1	A_1	A_1	

NCT AT NODE 5

**FIG.5b**

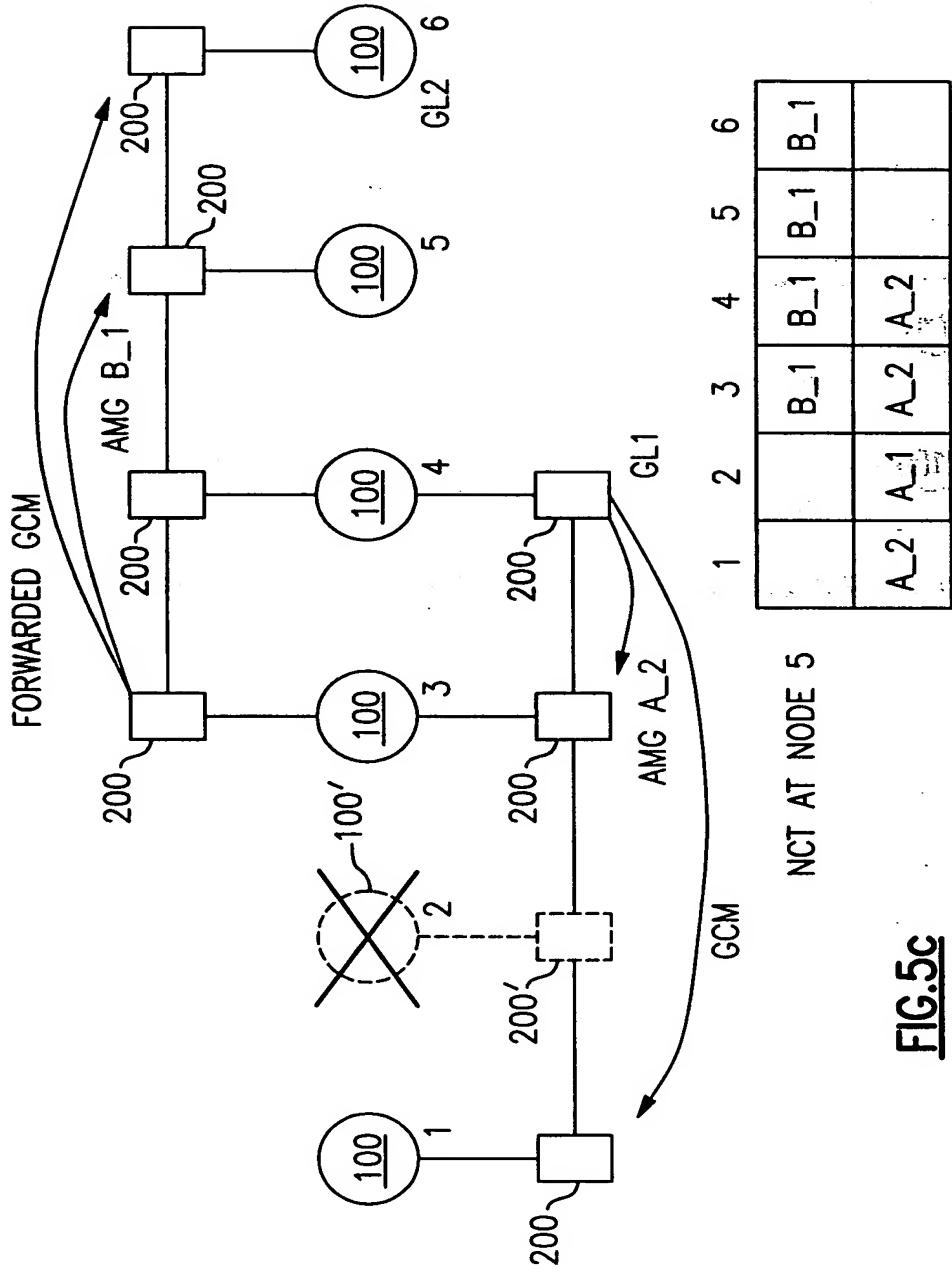


FIG.5C

NETWORK A: 10 SECONDS DETECTION TIME  
NETWORK B: 40 SECONDS DETECTION TIME

NODES 1 AND 2 ARE FORMING AMGs ON NETWORKS A AND B

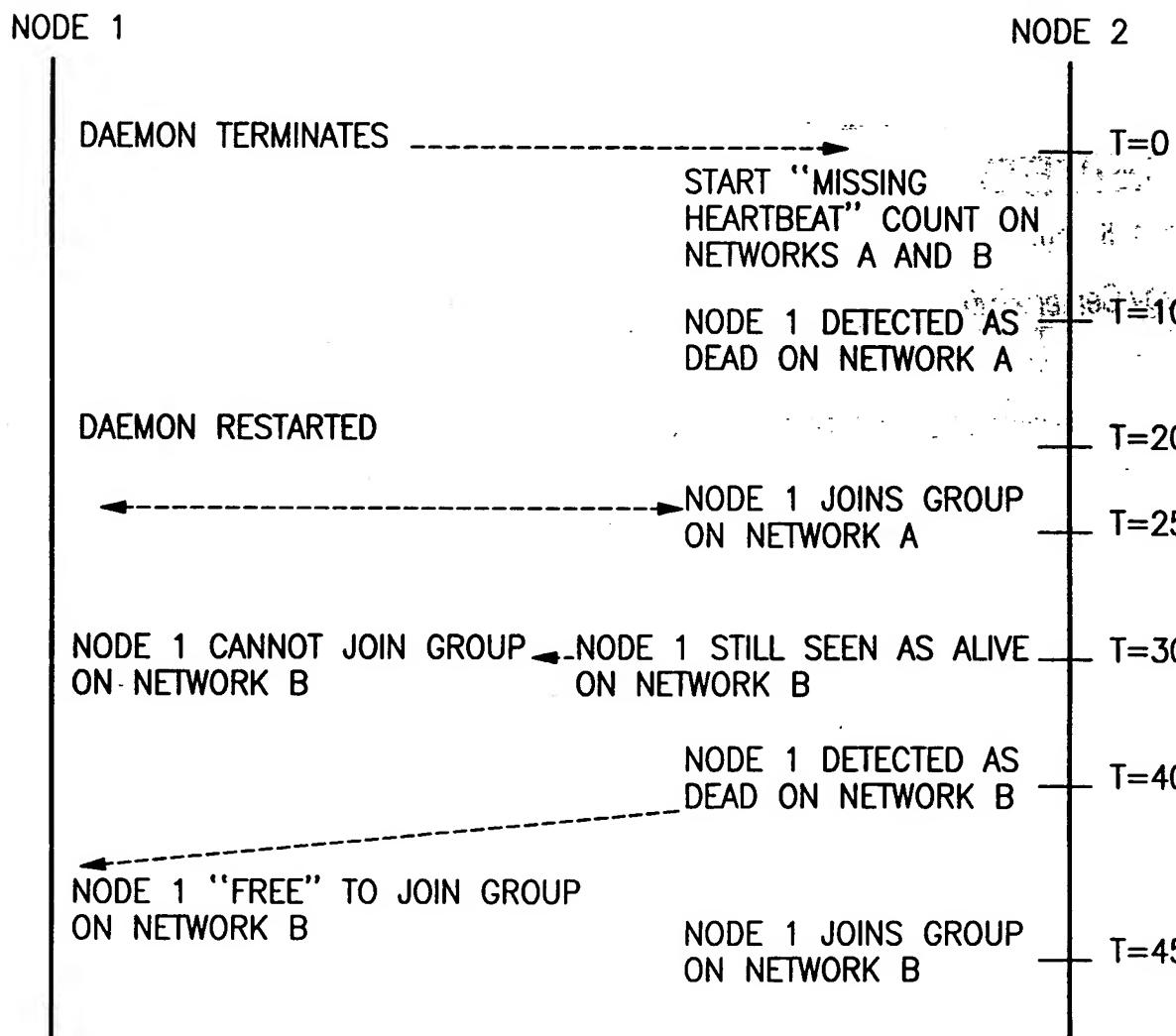


FIG.6

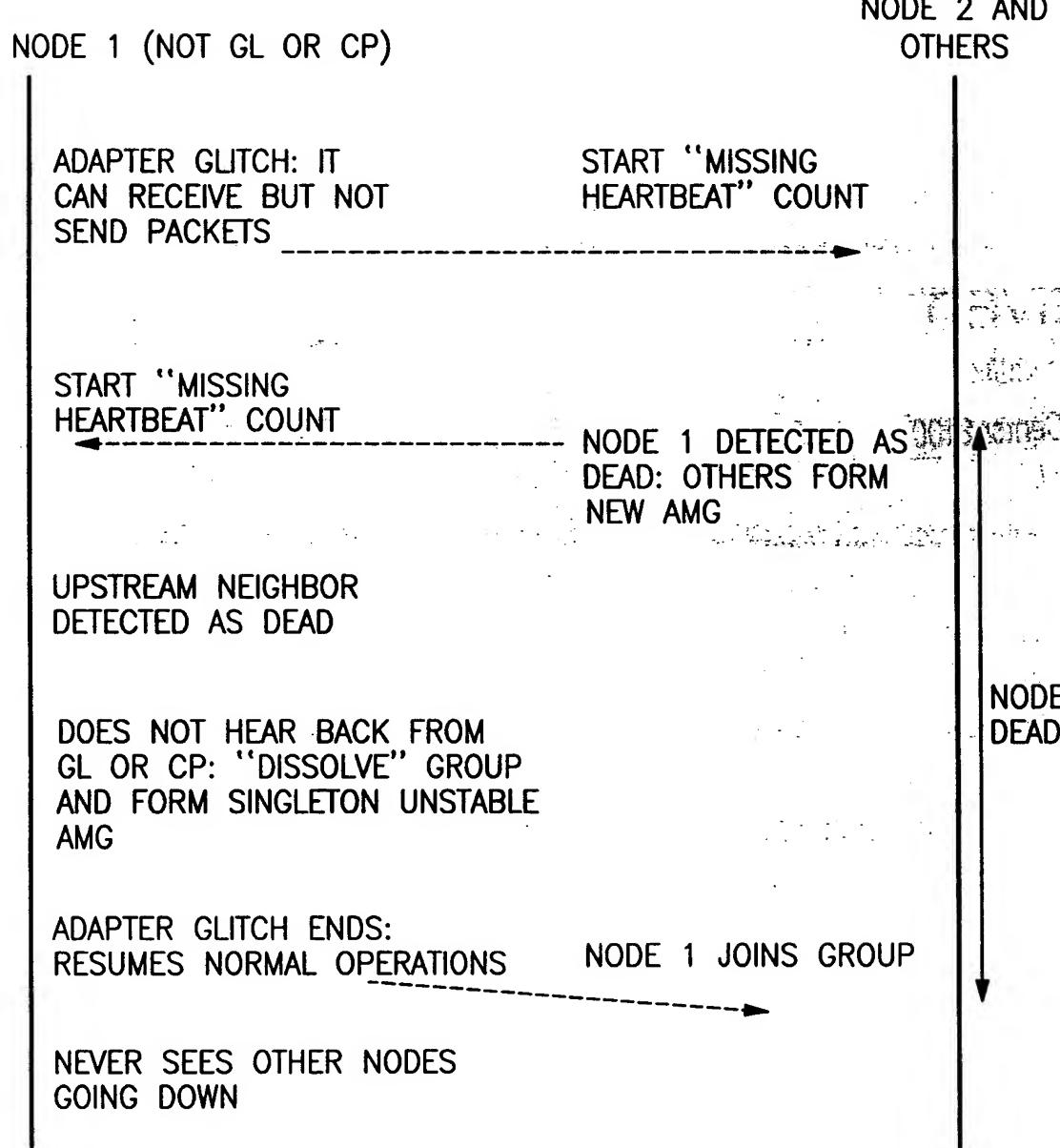


FIG.7

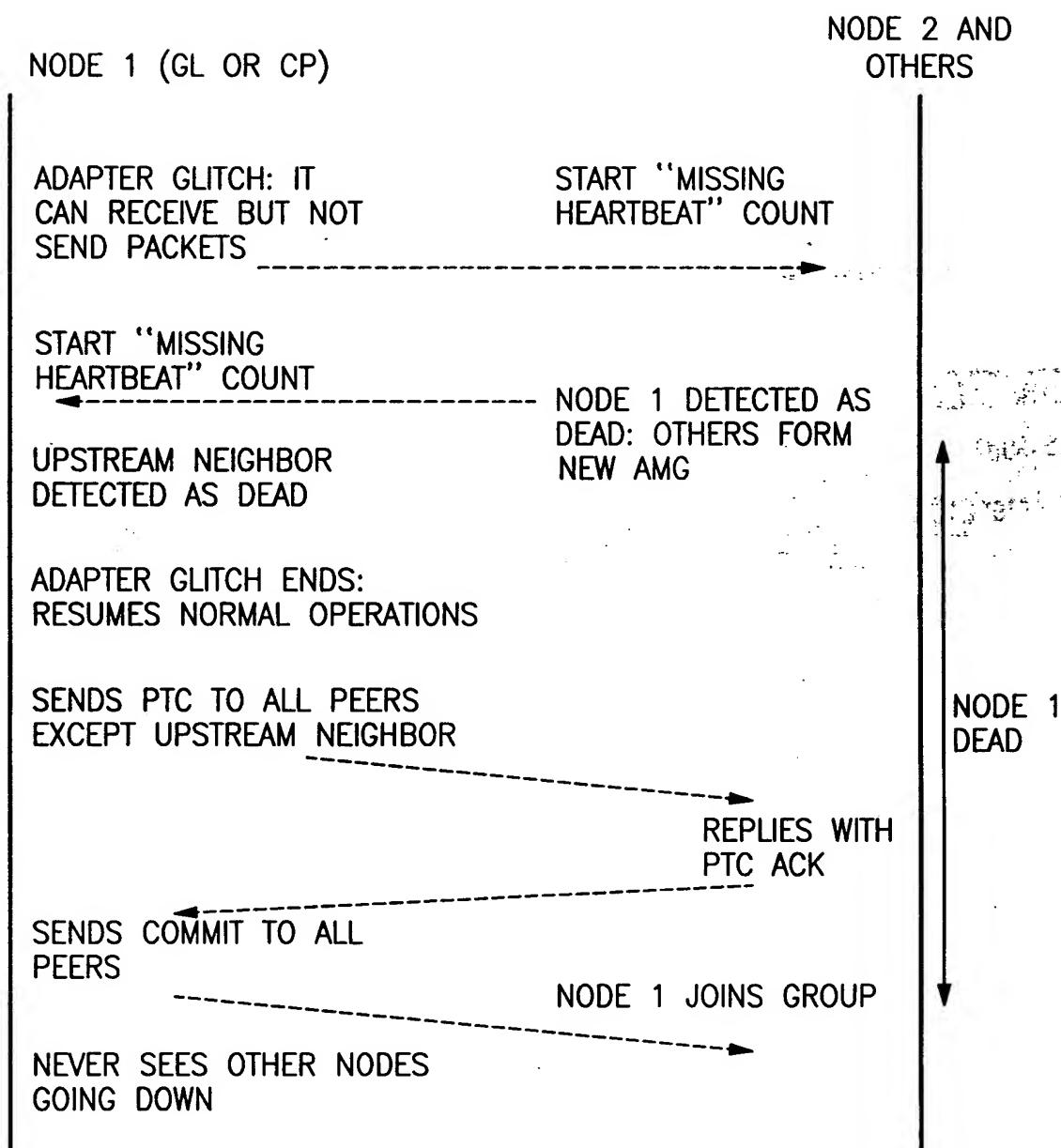


FIG.8

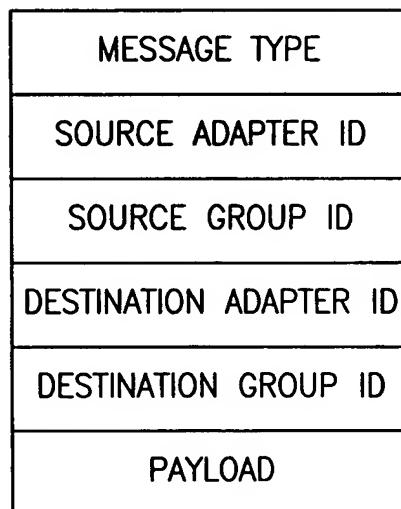
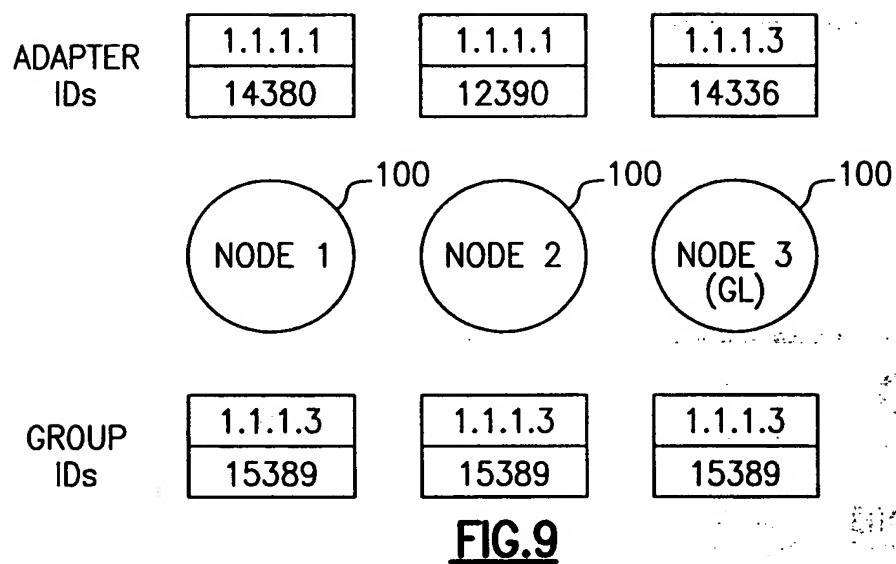


FIG.10

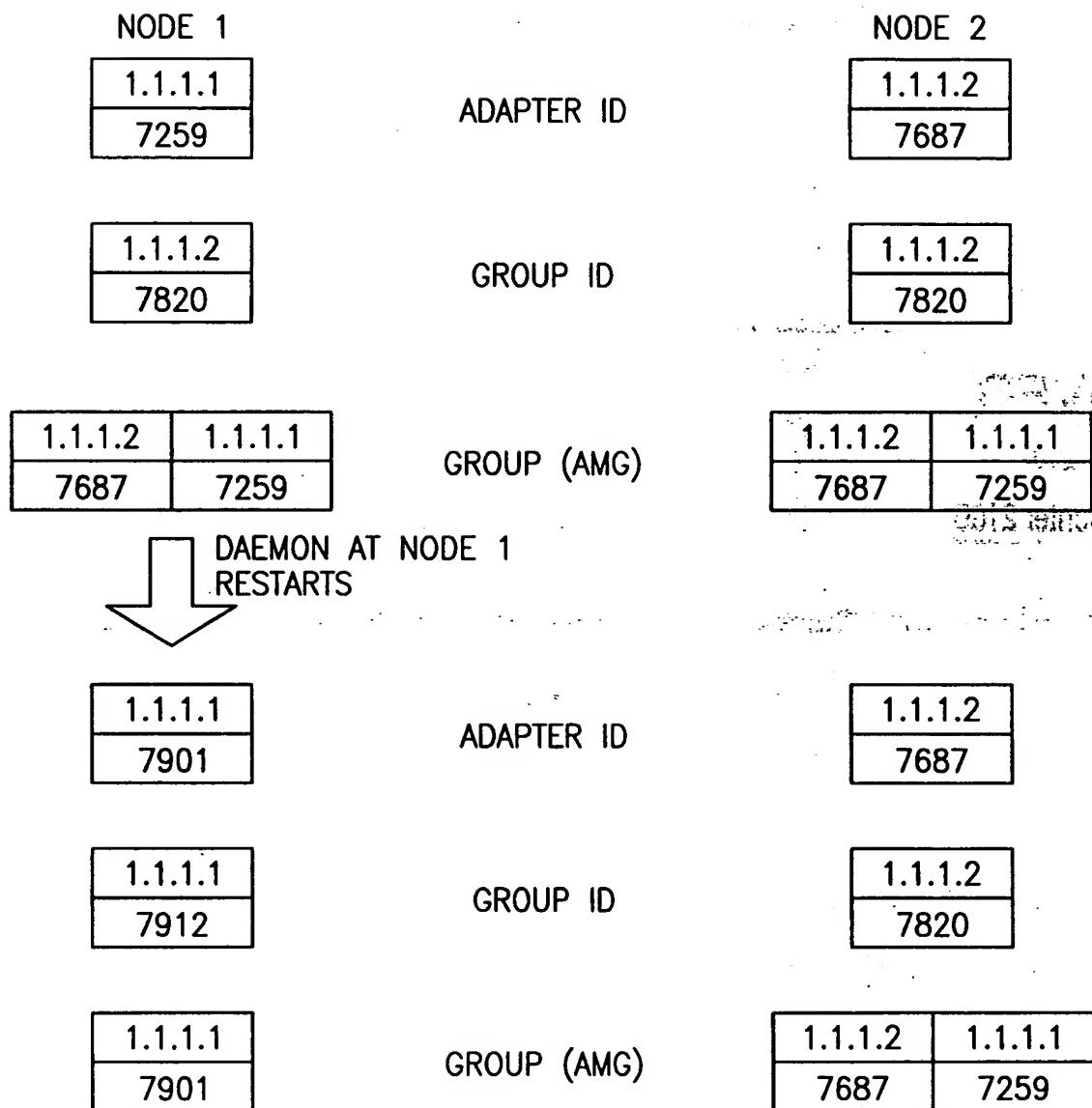
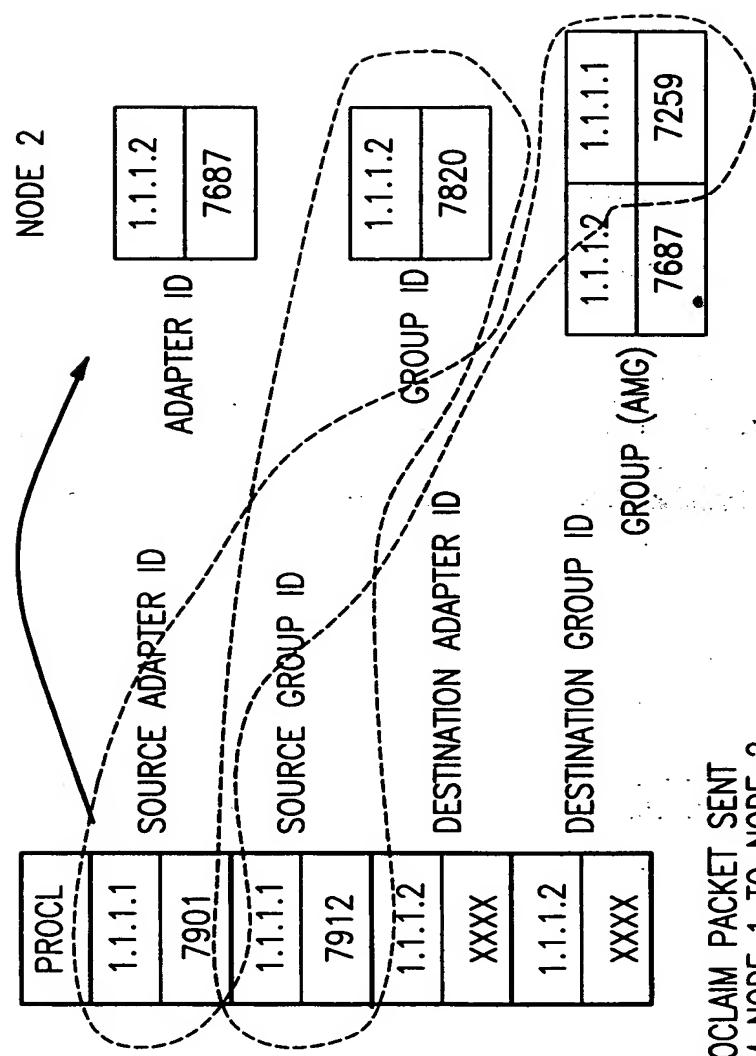


FIG.11



PROCLM PACKET SENT  
FROM NODE 1 TO NODE 2

**FIG.12**

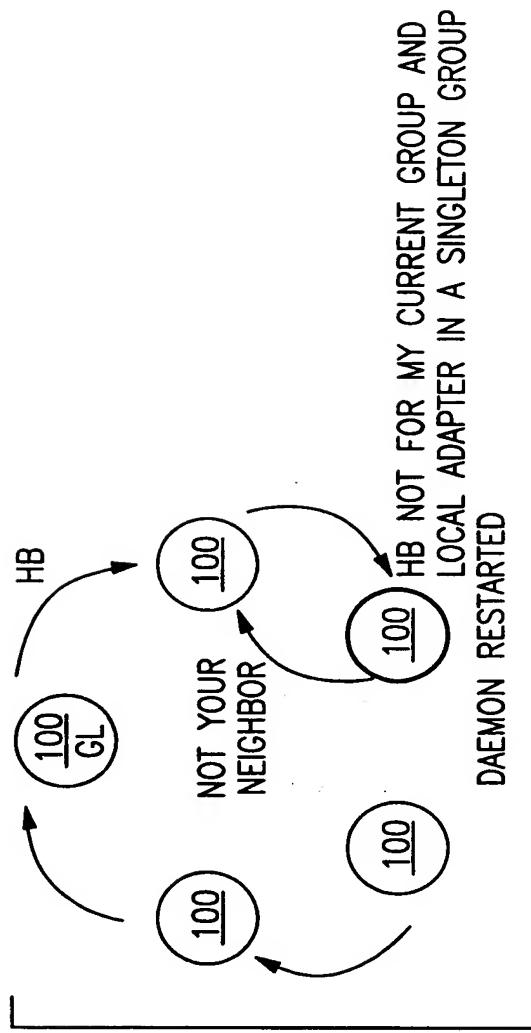


FIG. 13b

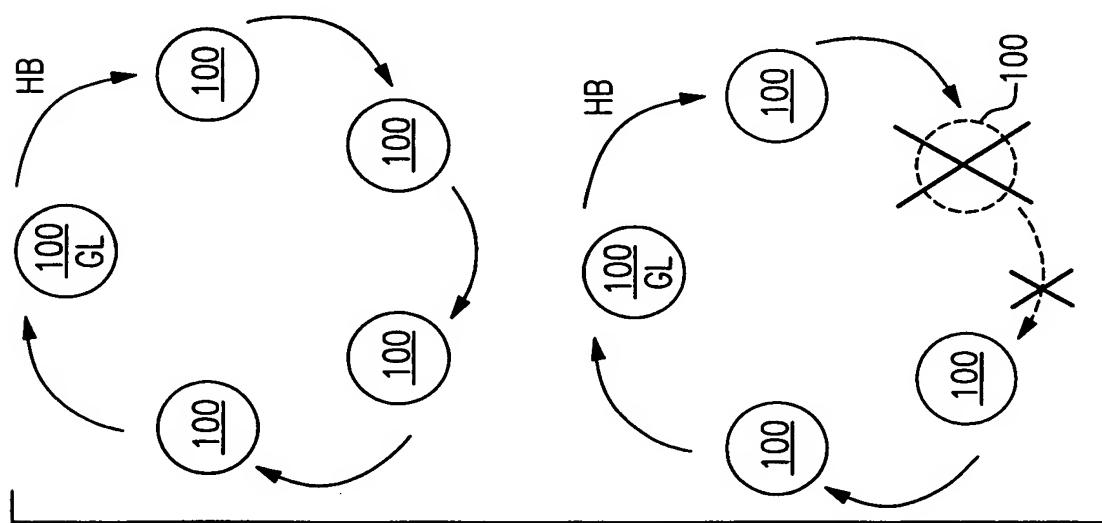


FIG. 13a

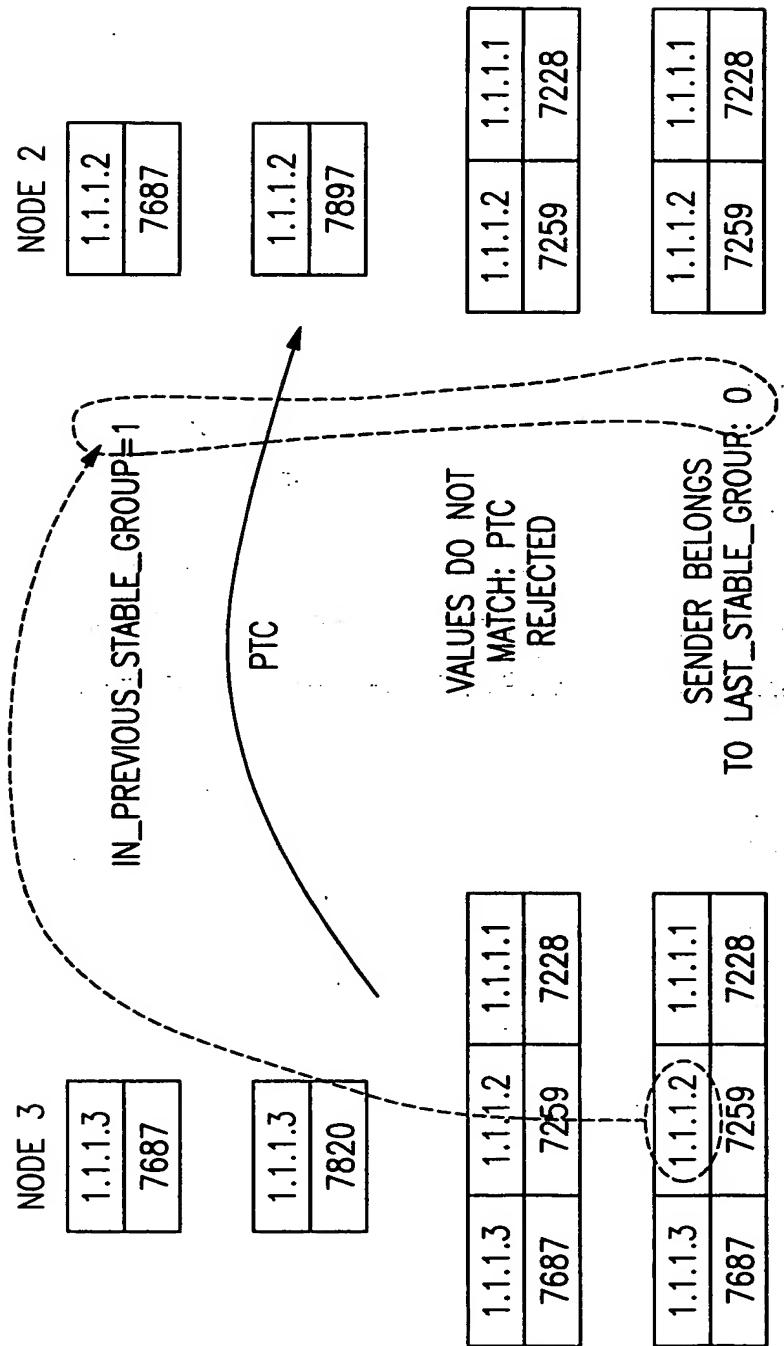
NODE 3 (GL)	ADAPTER ID	GROUP ID	GROUP (AMG)	LAST_STABLE_GROUP
1.1.1.3	7687			
		1.1.1.3	7259	7228
			1.1.1.1	
1.1.1.3	7687	1.1.1.2	7228	7228
			1.1.1.1	
1.1.1.3	7687	1.1.1.2	7228	7228
			1.1.1.1	

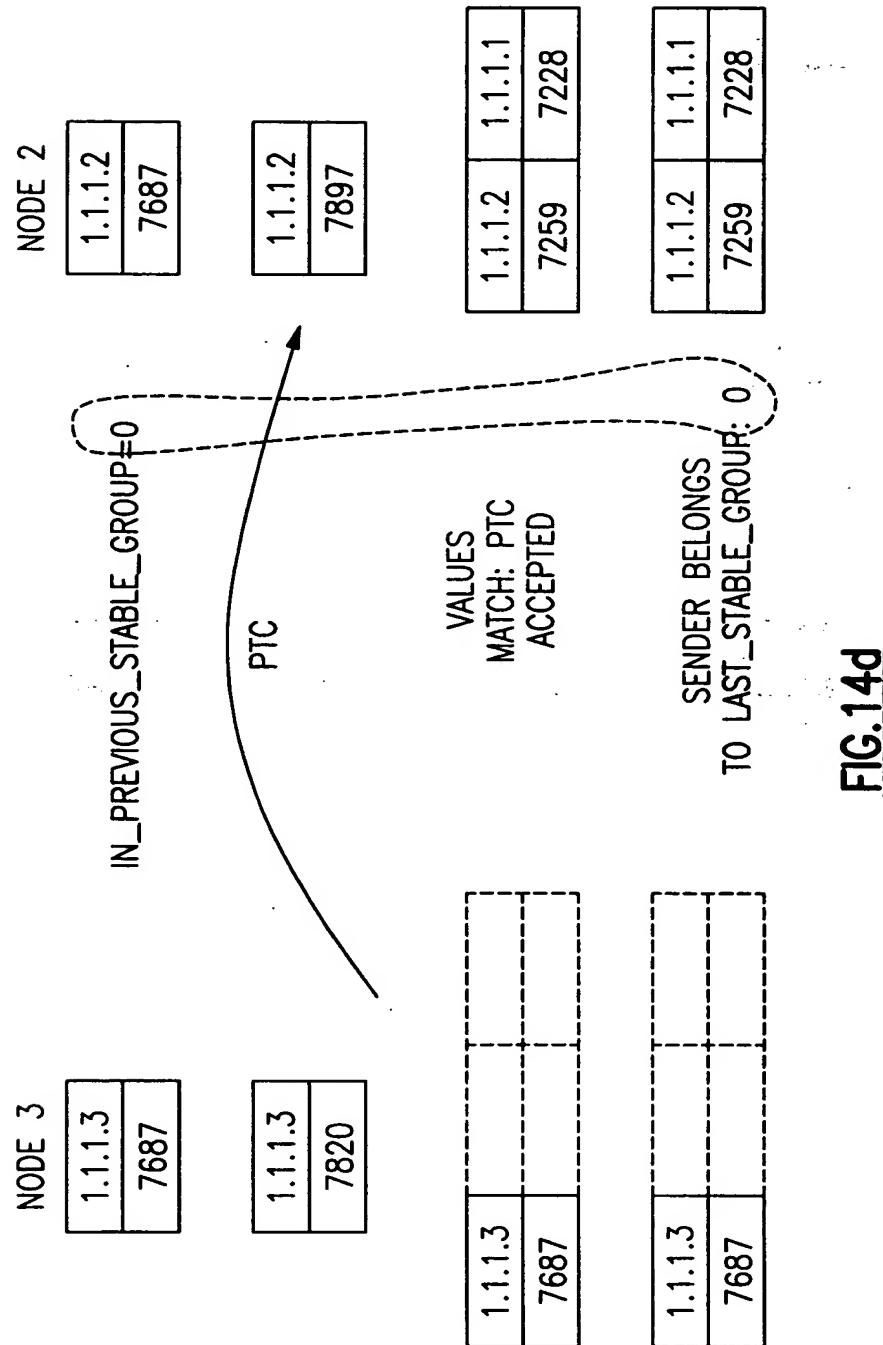
COMMUNICATION GLITCH  
IN NODE 3'S ADAPTER

FIG.14a

NODE 2	ADAPTER ID	GROUP ID	GROUP (AMG)	LAST_STABLE_GROUP
1.1.1.2	7687	1.1.1.2	7259	7228
1.1.1.2	7897	1.1.1.2	7259	7228
1.1.1.3	7687	1.1.1.3	7259	7228
1.1.1.3	7820	1.1.1.3	7259	7228

FIG.14b



**FIG.14d**

NODE 1				NODE 3 (GL)			
ADAPTER ID		GROUP ID		GROUP (AMG)		LAST_STABLE_GROUP	
1.1.1.1	7228	1.1.1.3	7820	1.1.1.3	7687	1.1.1.3	7228
1.1.1.1	7228	1.1.1.3	7820	1.1.1.3	7687	1.1.1.2	7259
1.1.1.1	7228	1.1.1.2	7820	1.1.1.2	7687	1.1.1.1	7259
1.1.1.1	7228	1.1.1.1	7820	1.1.1.1	7687	1.1.1.1	7228

COMMUNICATION GLITCH  
IN NODE 1'S ADAPTER.

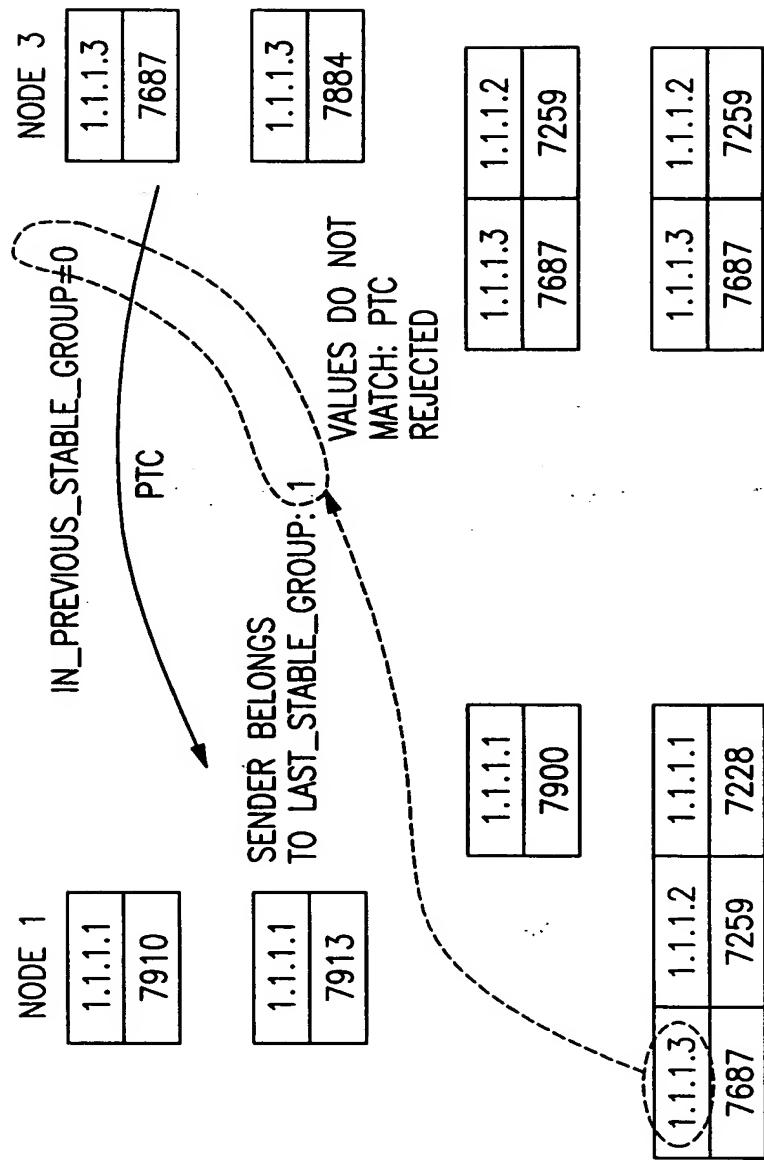
**FIG.15g**

NODE 1	ADAPTER ID	GROUP ID	GROUP (AMG)	LAST_STABLE_GROUP
1.1.1.1			1.1.1.3	1.1.1.2
7228			7687	7259
1.1.1.3			1.1.1.3	1.1.1.2
7820			7884	7259
			1.1.1.3	1.1.1.2
			7687	7259
			1.1.1.3	1.1.1.2
			7687	7259

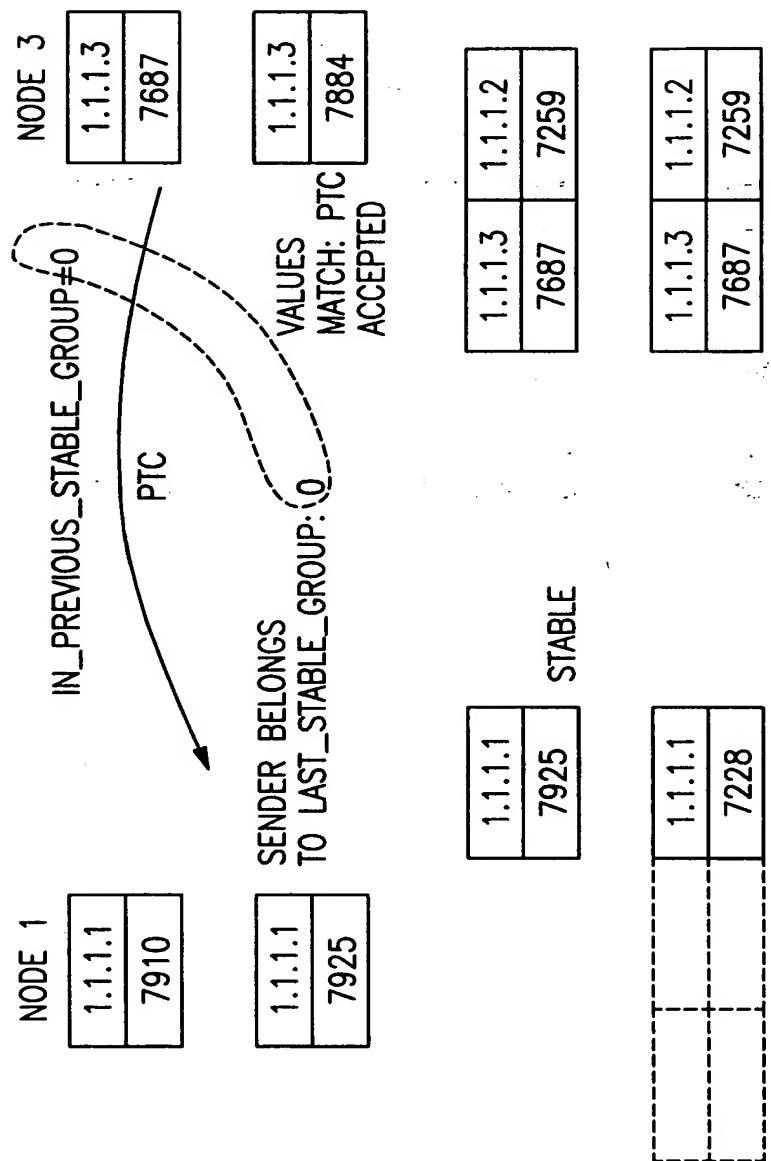
**FIG.15b**

NODE 1	ADAPTER ID	GROUP (AMG)	LAST_STABLE_GROUP
1.1.1.1	7910	1.1.1.1	7910
1.1.1.1	7913	1.1.1.1	7913
		1.1.1.3	7687
		1.1.1.3	7884
		1.1.1.2	7259
		1.1.1.2	7228
		UNSTABLE	

**FIG.15c**



**FIG. 15d**



**FIG. 15e**